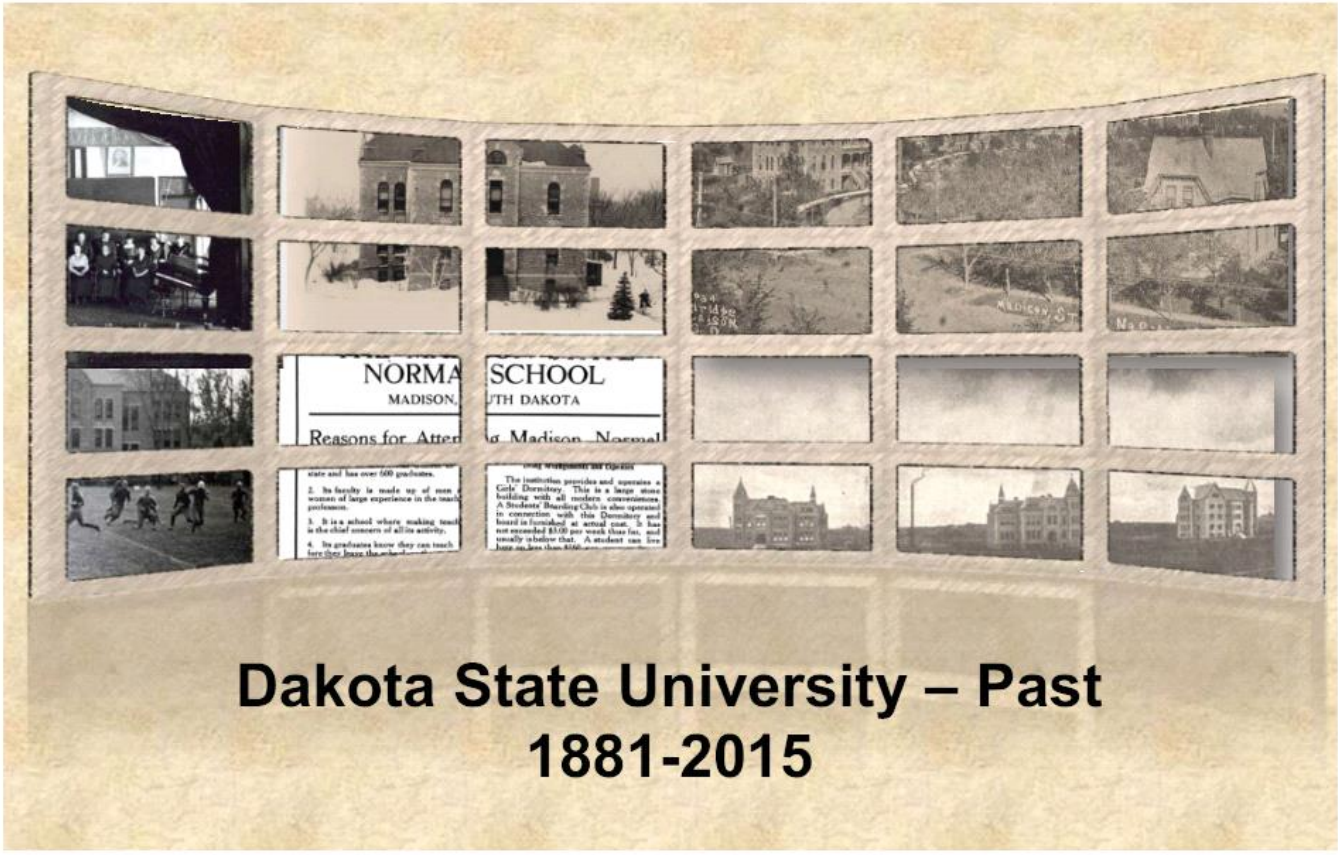
10 - DSU Presentation

Monday, February 01, 2016
10:13 AM



Dakota State University – Past
1881-2015

DSU
DAKOTA STATE

DSU's Original Mission

In 1881, the Dakota Territory established The Madison State Normal School **to educate teachers** for Territory schools

Photo from late 1800's

DSU's Mission Change

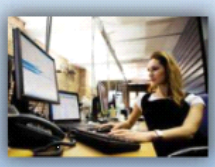
1984 – South Dakota legislation:

"The primary purpose of Dakota State College, at Madison in Lake County, is to provide programs in computer information systems, electronic data processing, computer education and other undergraduate courses and programs…

DSU's Mission

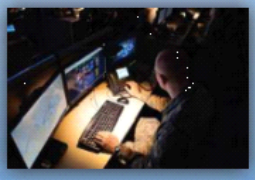
Technology-degrees

Examples:



Computer Science (BS) & Math for Info Systems (BS)

Network & Systems Administration (B.S.)



Computer & Network Security (B.S.) & Cyber Operations (B.S.)

Computer Game Design (BS)

Technology-infused degrees

Example: All DSU teaching degrees = teaching degree PLUS a K-12 Technology endorsement

Elementary Education (BS Ed)

PLUS

K-12 technology endorsement – can teach computer classes

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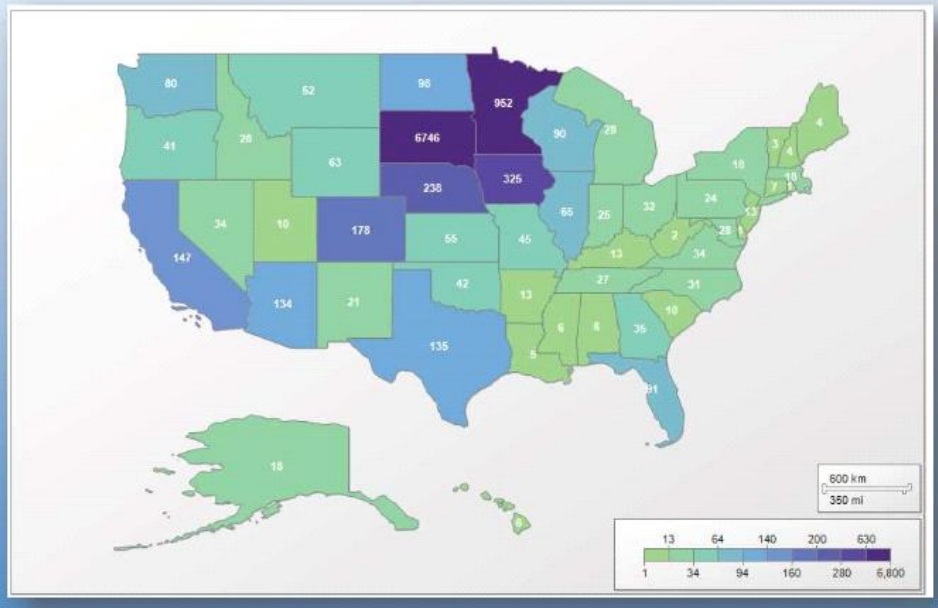
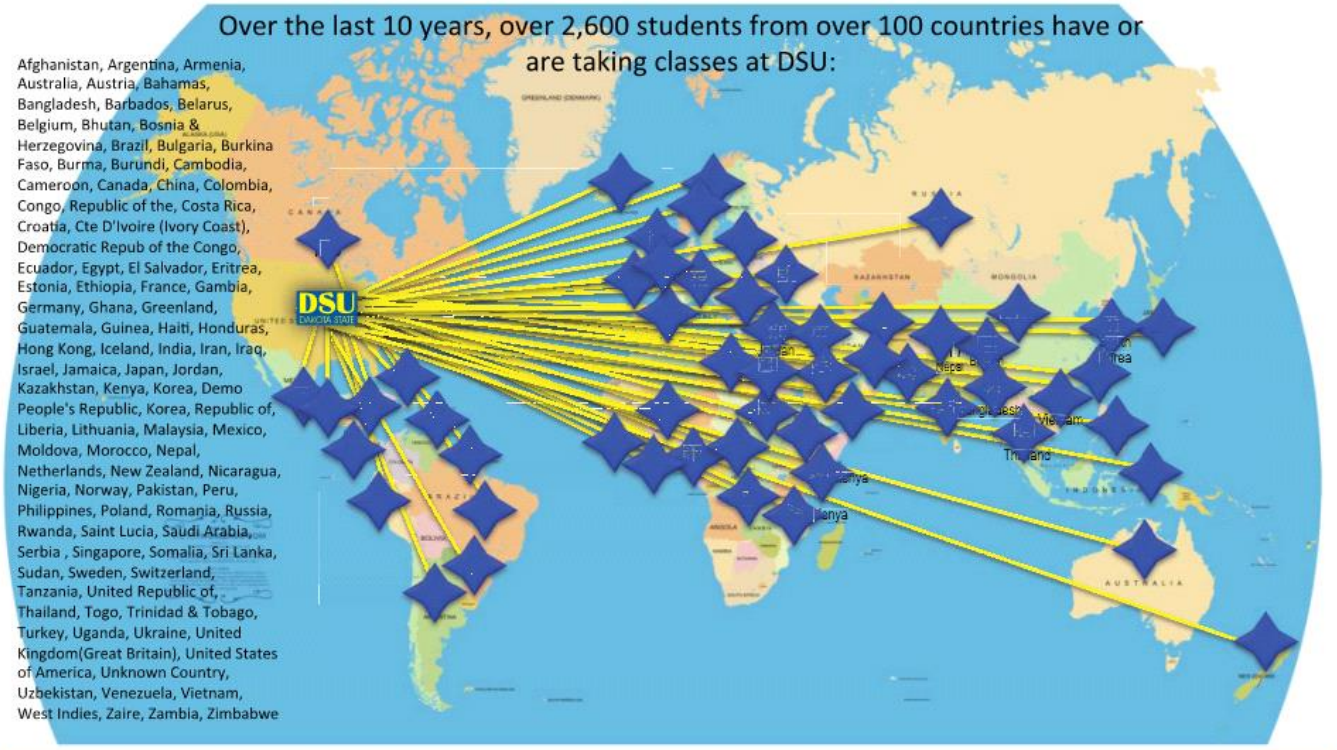
DSU Continues to Fulfill Its Mission

Over 18,000 students have graduated from DSU since its beginning

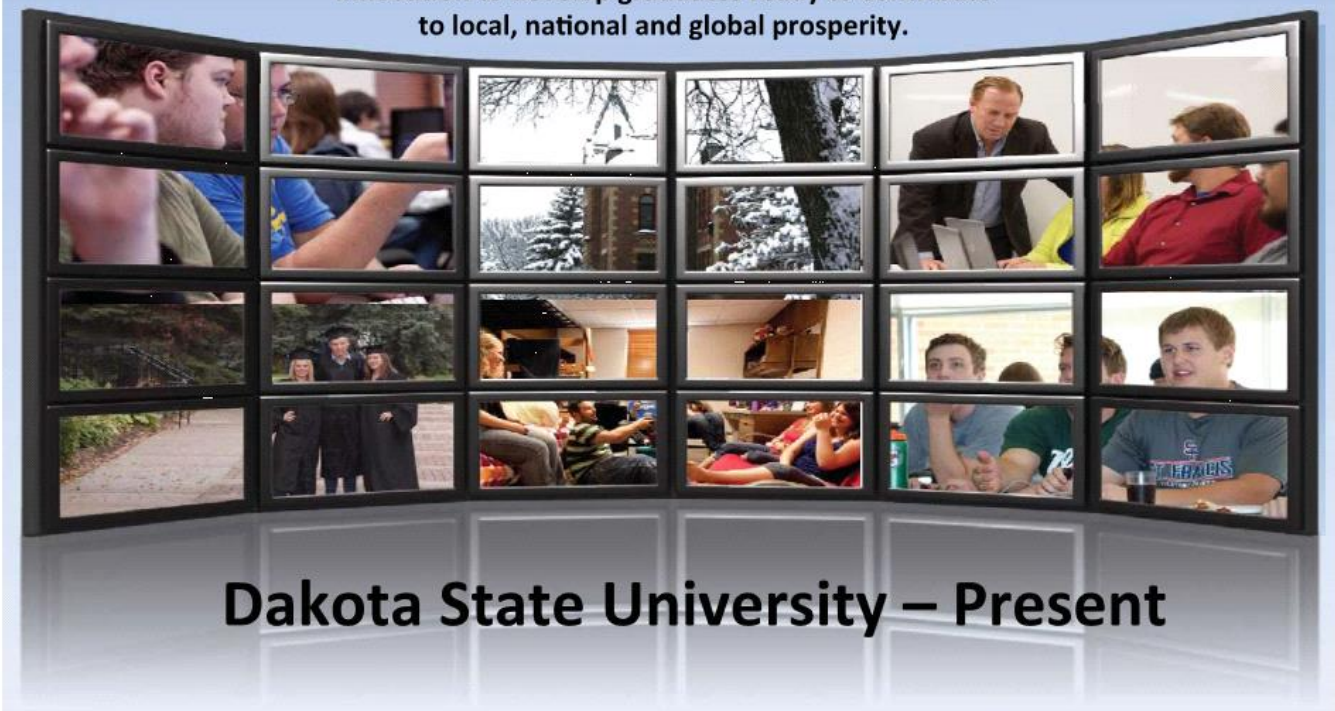
Dakota State Living Alumni by State *(January 2016)*



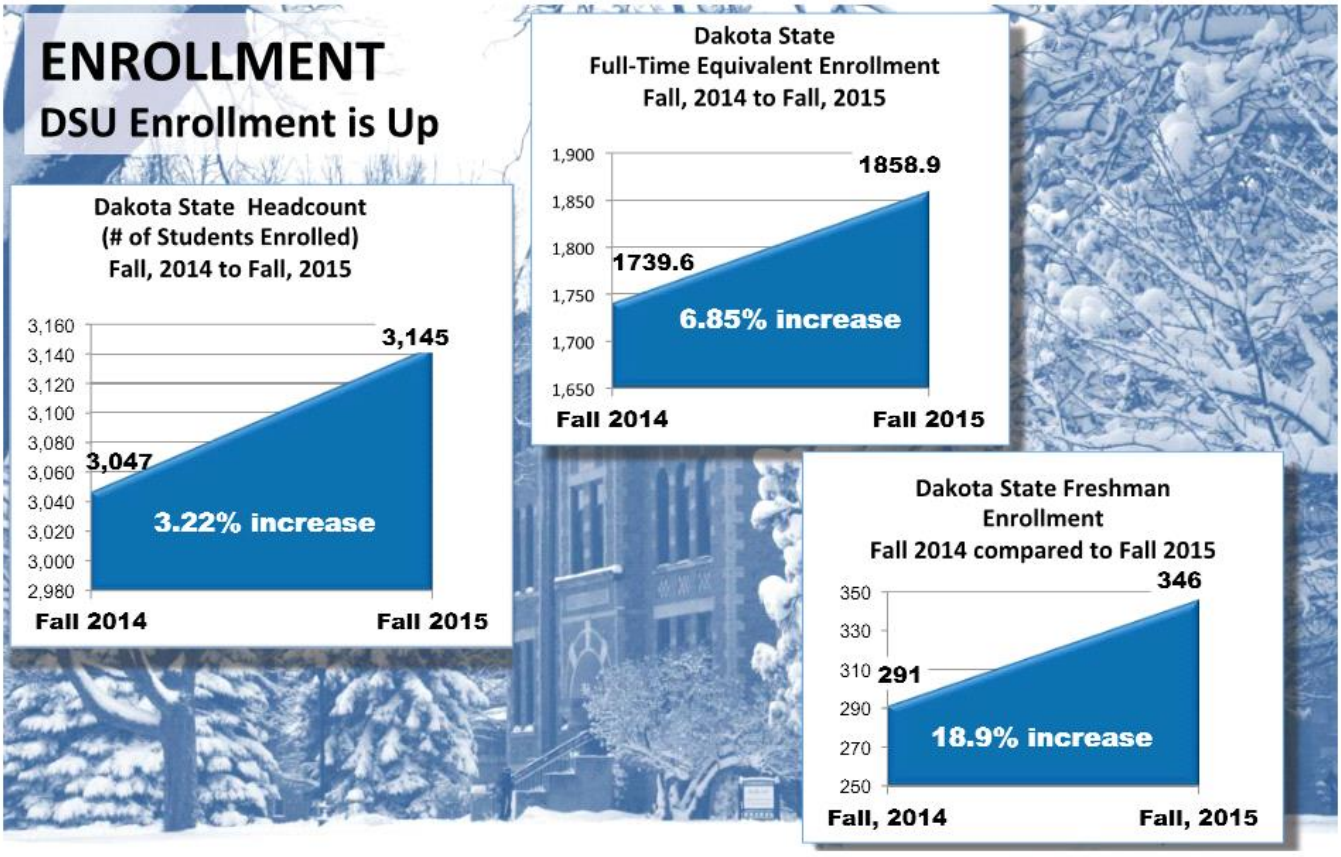
DSU Continues to Bring the World to South Dakota



Dakota State University provides learning that integrates technology and innovation to develop graduates ready to contribute to local, national and global prosperity.

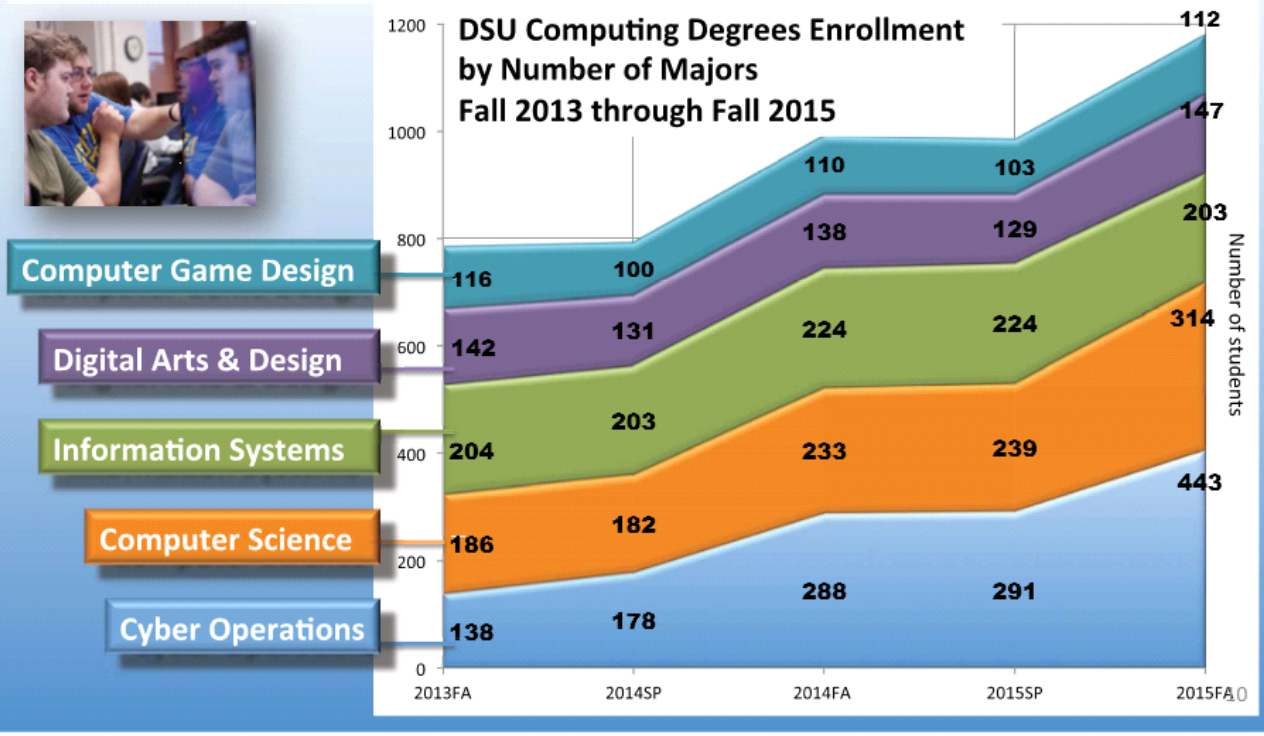


Dakota State University – Present


ENROLLMENT
DSU Enrollment is Up
Dakota State Headcount
(# of Students Enrolled)
Fall, 2014 to Fall, 2015
3,160
3,140
3,120
3,100
3,080
3,060
3,040
3,020
3,000
2,980
3,145
3,047
3.22% increase
Fall 2014
Fall 2015
Dakota State
Full-Time Equivalent Enrollment
Fall, 2014 to Fall, 2015
1,900
1,850
1,800
1,750
1,700
1,650
1858.9
1739.6
6.85% increase
Fall 2014
Fall 2015
Dakota State Freshman
Enrollment
Fall 2014 compared to Fall 2015
350
330
310
290
270
250
346
291
18.9% increase
Fall, 2014
Fall, 2015

ENROLLMENT

All computing degree programs have enrollment increases



DSU has made good use of State Investment

Example: SB236 from the 2013 Legislative Session, $900,000 appropriation to DSU to expand computing-related programs at DSU

	Actual		Revised Projections as of Jan. 2016	
	Year 1	Year 2	Year 3	Year 4
Projected Expenses:	**FY14**	**FY15**	**FY16**	**FY17**
Faculty Salary Total	$164,663	$180,399	$339,252	$352,822
Benefits	$40,545	$46,174	$90,741	$101,541
Total Personal Services Cost	$205,208	$226,572	$429,993	$454,363
Operating Expenses	$264	$332	$849	$6,000
Total Expense Projection by Fiscal Year	$205,472	$226,904	$430,842	$460,363

Projected Expenditure of Special Appropriation[2]:	**FY14**	**FY15**	**FY16**	**FY17**
Beginning Balance of Special Appropriation	$900,000	$694,528	$467,624	$36,782
Expenditure from Special Appropriation	$205,472	$226,904	$430,842	$36,782
Ending Balance of Special Appropriation	$694,528	$467,624	$36,782	$0

	Actual			Projected
	FY14	**FY15**	**FY16**	**FY17**
Number of Additional Faculty (cumulative)	3	4	5	5

	Base	Actual			5% Projected Growth
Enrollment Growth in All IT Programs:	**Fall 12**	**Fall 13**	**Fall 14**	**Fall 15**	**Fall 16**
Number of Undergraduate students in IT	692	770	852	978	1027
Number of Graduate students in IT	155	169	209	221	232

All IT programs = Cyber Operations, Computer Network Security, Information Systems, Digital Game Design, Digital Arts and Design, other computer science-related majors.

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DSU nurtures high school student interest

Example:

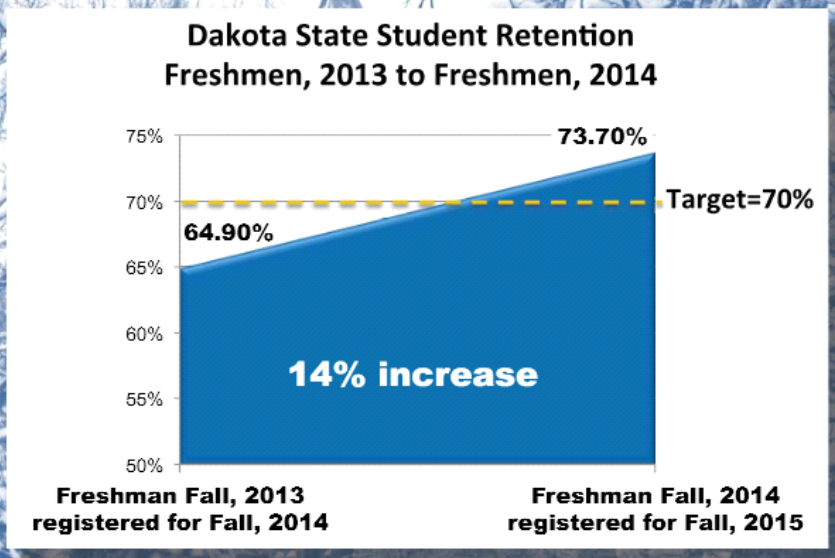
GenCyber Camps

July 2015 GenCyber: Girls in Cyber Security, 100 students from 10 states

June 2015 GenCyber co-ed camp with 200 students from 23 states

RETENTION

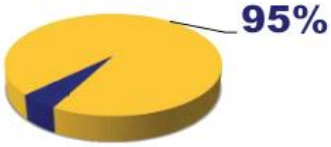
DSU Freshman Retention is Up



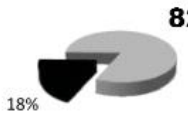
PLACEMENTS

DSU Graduates Get Jobs

Dakota State University 2014 Graduates Average Job Placement Percentage

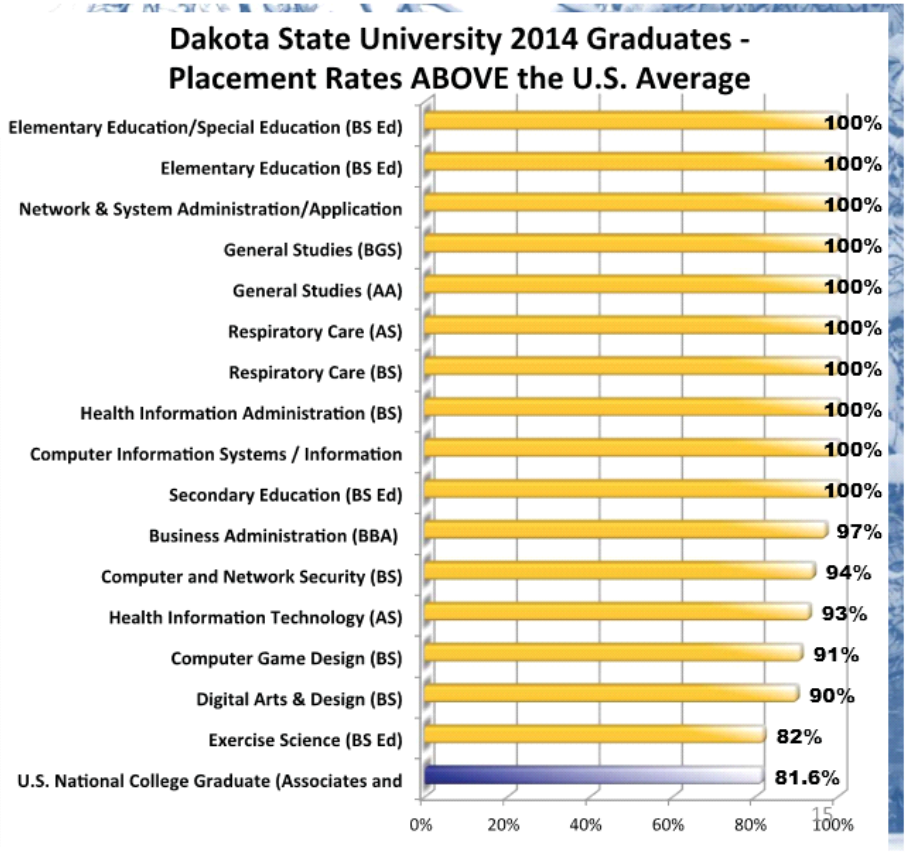


U.S. College 2014 Graduates Average Placement Percentage
(National Center for Education Statistics)



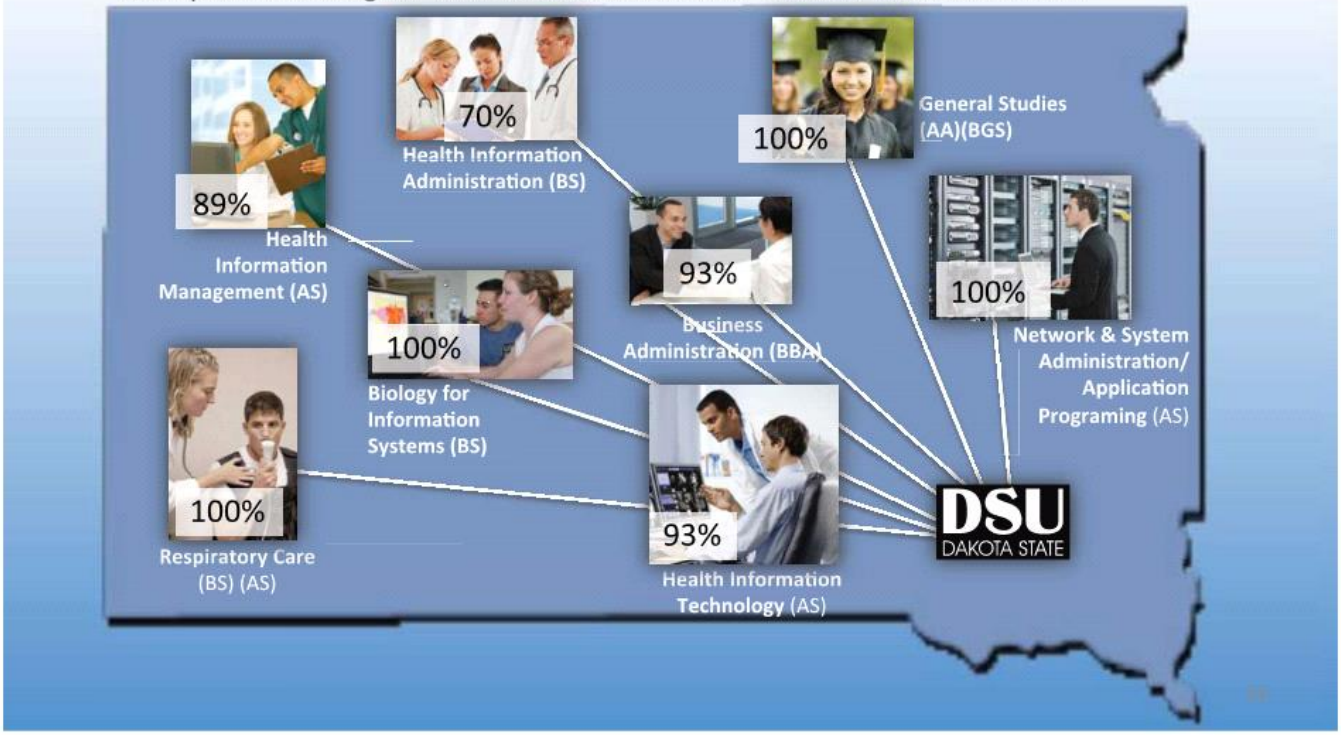
PLACEMENTS

DSU graduates get jobs at a rate ABOVE the national average for U.S. college graduates

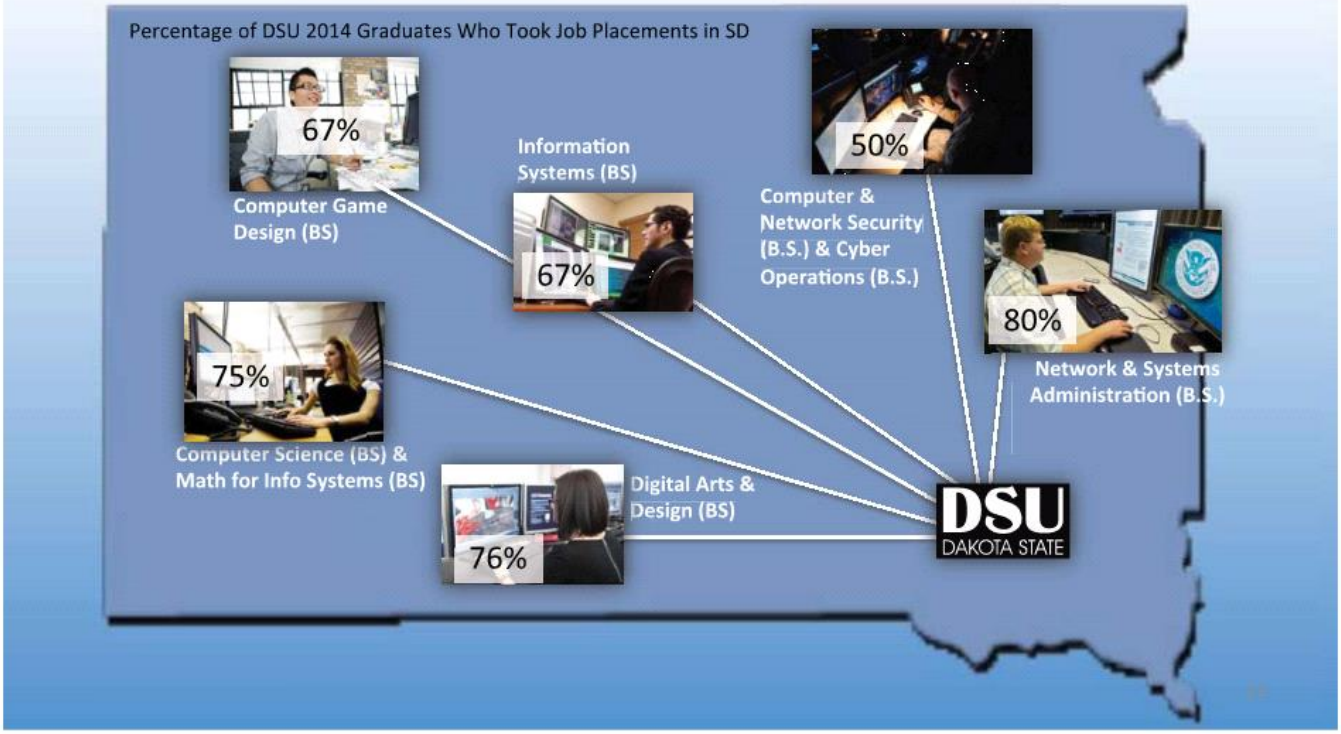


DSU Graduates Stay to Work in South Dakota

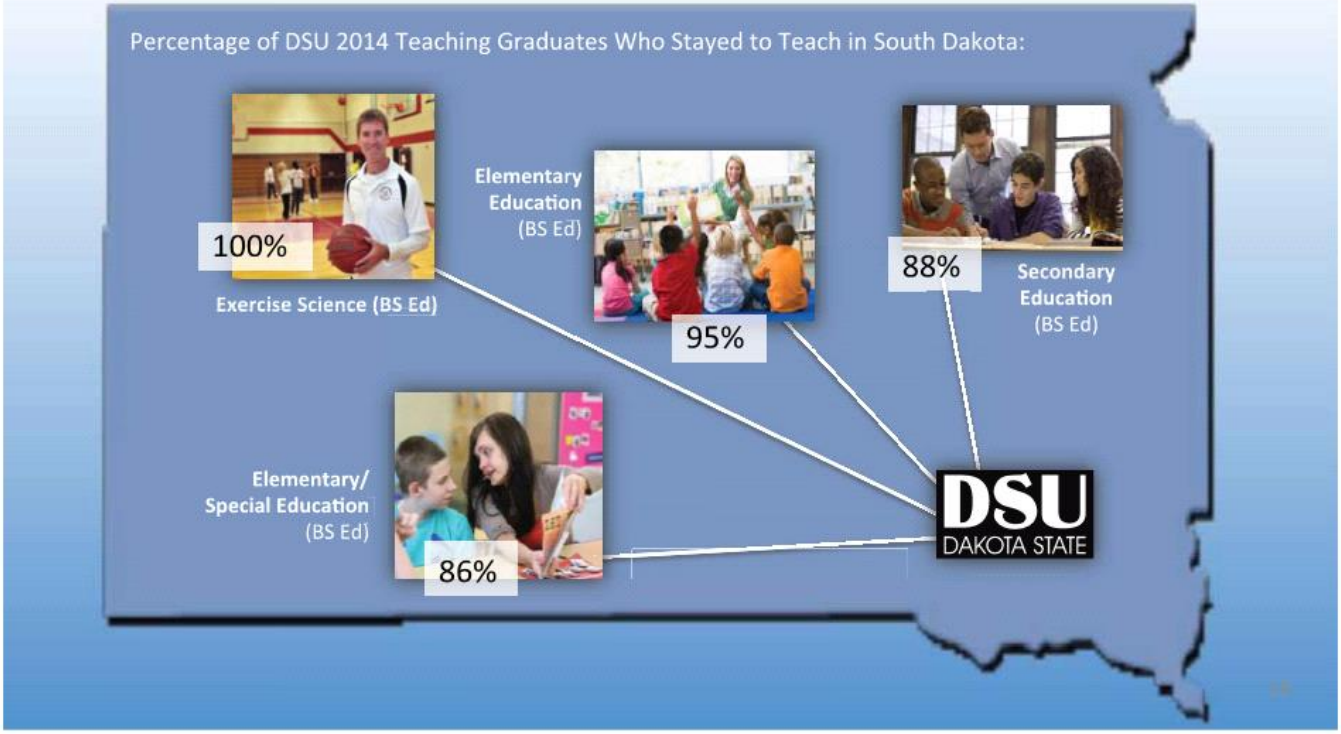
Examples: Percentage of DSU 2014 Graduates Who Took Job Placements in SD:

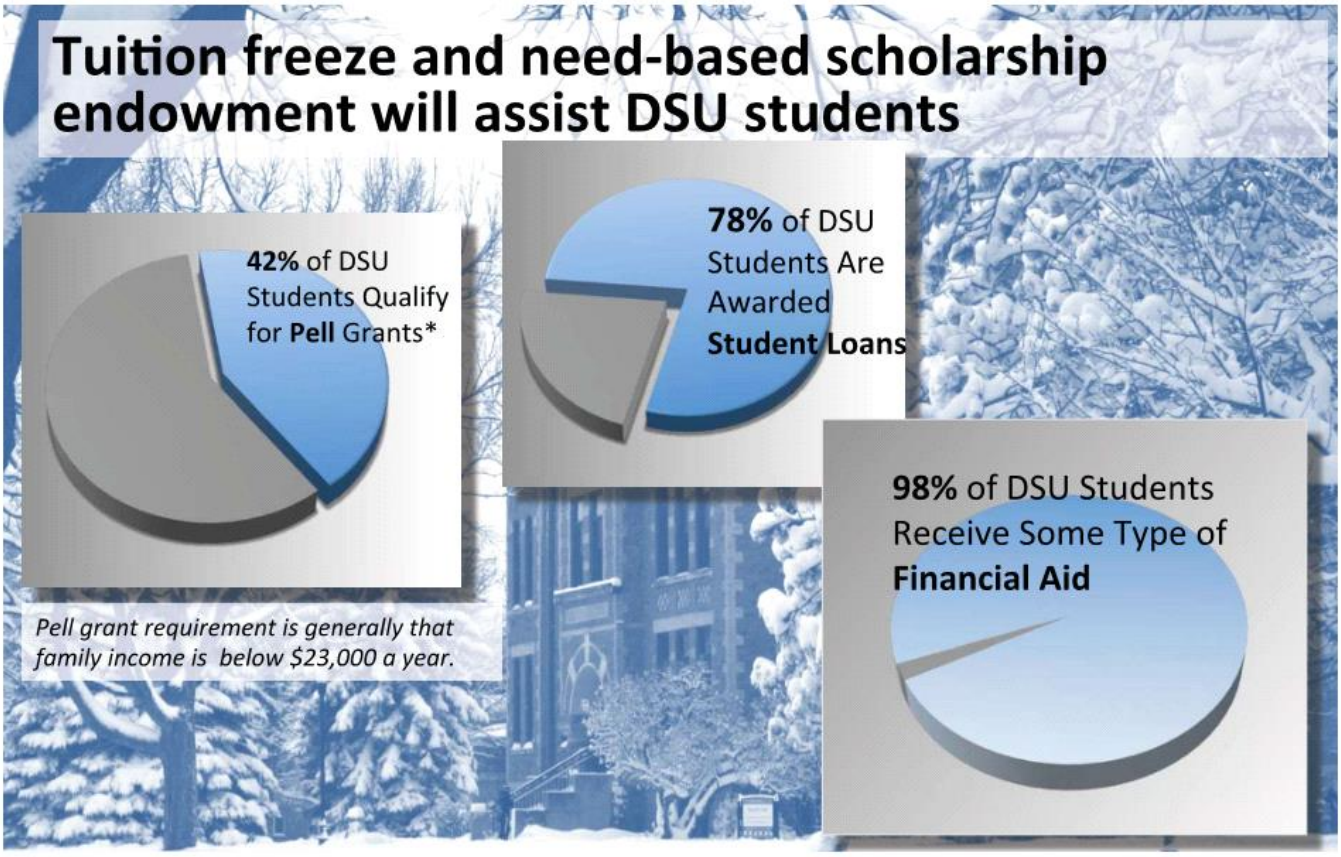


But South Dakota faces stiff competition for many computing degree graduates - many fewer take jobs in South Dakota



DSU Serves South Dakota's K-12 School Systems




Tuition freeze and need-based scholarship endowment will assist DSU students
42% of DSU Students Qualify for Pell Grants*
Pell grant requirement is generally that family income is below $23,000 a year.
78% of DSU Students Are Awarded Student Loans
98% of DSU Students Receive Some Type of Financial Aid

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DSU Innovates to Ensure Student Success

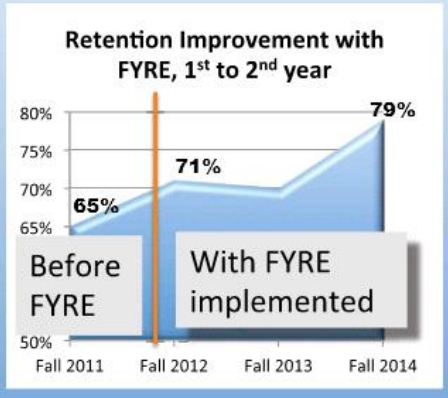
Example: First Year Residence Experience - FYRE

In-hall Tutoring

Community Development Activities

StrengthsQuest career planning, leadership skills, etc.

Dedicated residence halls/floors for FYRE students



DSU Innovates to Ensure Student Success

Online students

- Enhanced process to facilitate earlier admittance of online students
- Interactive assessment for students to decide if online study will work for them
- Easier process for students to do "online chat" with DSU staff/faculty
- Partnerships between new and transfer online students

Students with Disabilities

Consistent easy access for the disabled on DSU's Madison Campus

All Students

Process and incentives for DSU faculty, students or staff to propose and receive implementation support for signature student success initiatives

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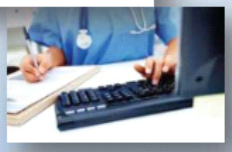
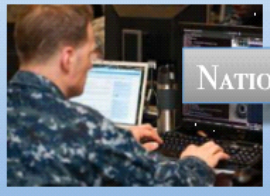
DSU is winning grant support

Awards and grants awarded to DSU in the last year include:

healthPOINT at Dakota State University



South Dakota JumpStart

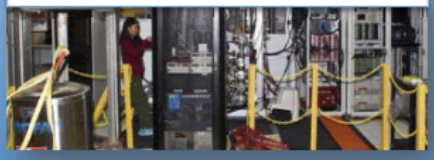


National Security Agency

Great Plains Education Foundation, Inc.

STEM INSTITUTE AT DSU

National Science Foundation
WHERE DISCOVERIES BEGIN



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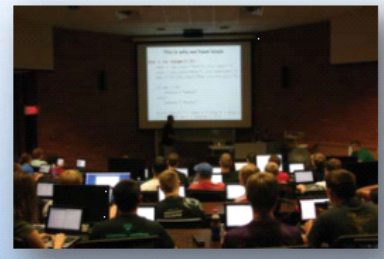
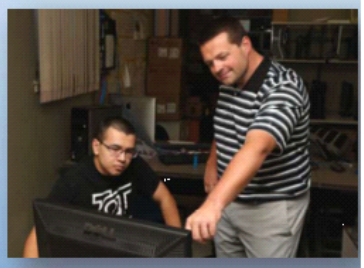
DSU finds innovative ways to cut costs

Example: The Information Assurance (IA) Lab



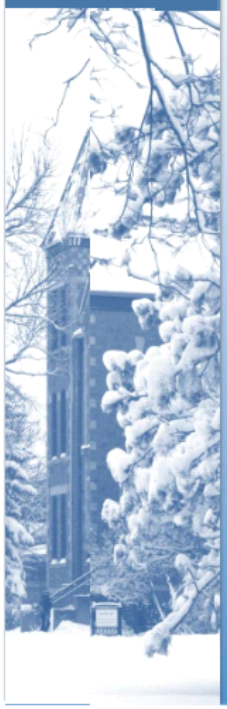
- Faculty create, test and replicate multi-use, multi-platform labs
- **Serves over 900 students per semester in 15 different programs**

Also hosts research projects for undergraduate and graduate students and faculty



Due to its security, also houses DSU's High Performance Computing/ Hadoop "big data" environment.

DSU's design has been used by multiple different organizations to design their labs, including the **National Security Agency**, the **Naval Post Graduate School**, **Northeastern University** and the **University of Cincinnati.**



State M&R funding helps DSU maintains facilities to improve use

Examples include:

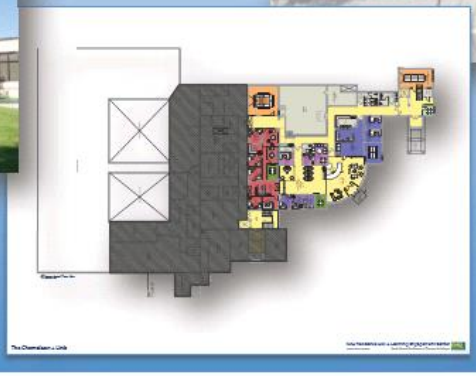
- Classroom remodeling
- ADA compliance
- Energy and electrical upgrades
- Window replacement and attic insulation

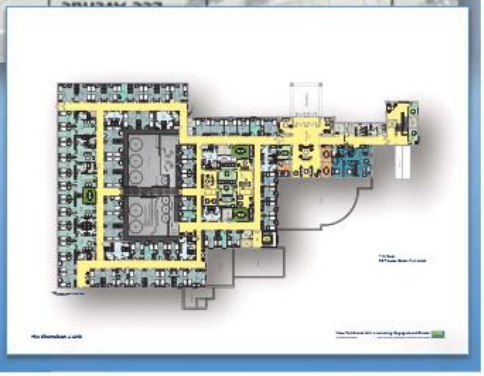
M&R funds are especially critical at DSU because:

- Age of buildings
- Heavy IT implementation

DSU is Improving Campus Facilities

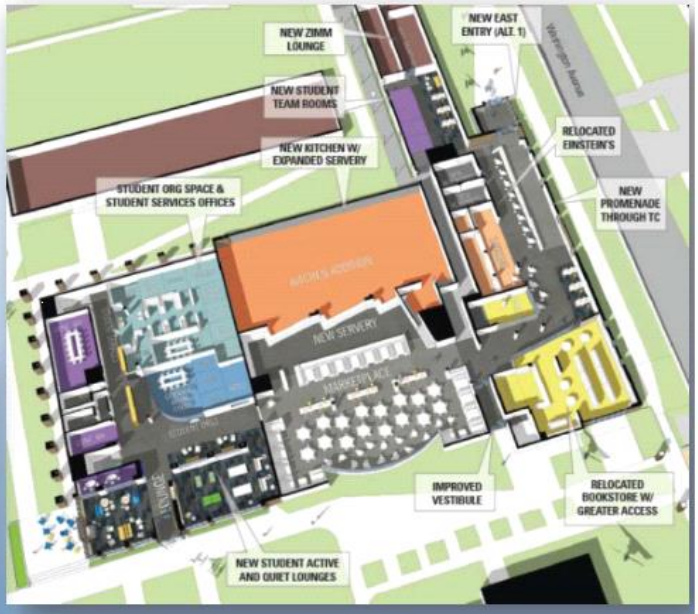
DSU has purchased the old Madison Hospital and it will be renovated as a new student residence hall with student activity spaces.





DSU is Improving Campus Facilities

The Trojan Student Center will be undergoing a major renovation.



DSU will add the first new academic building to its campus since the 1980's

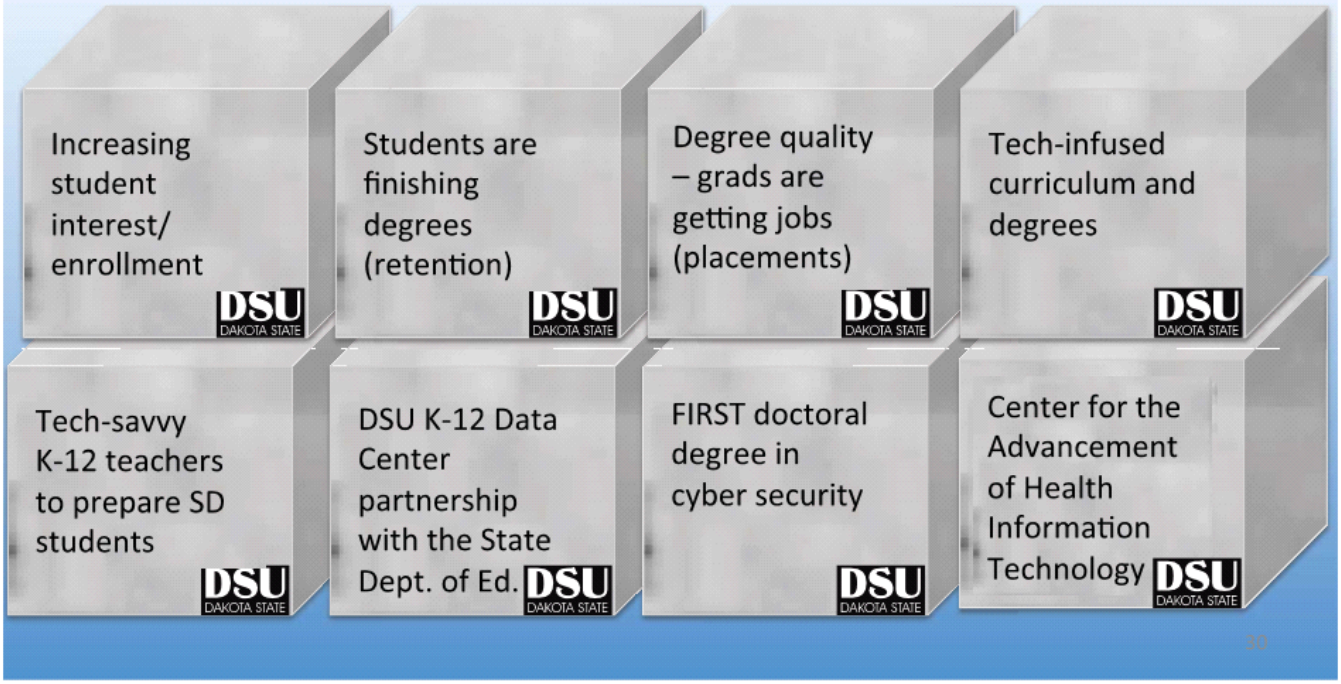
DSU will be building its first new academic building since 1986 – a brand new state-of-the-art technology-forward academic building

Senate Bill #11 passed so that DSU can acquire the part of the site (a portion of a parking lot) owned by the DSU Foundation.

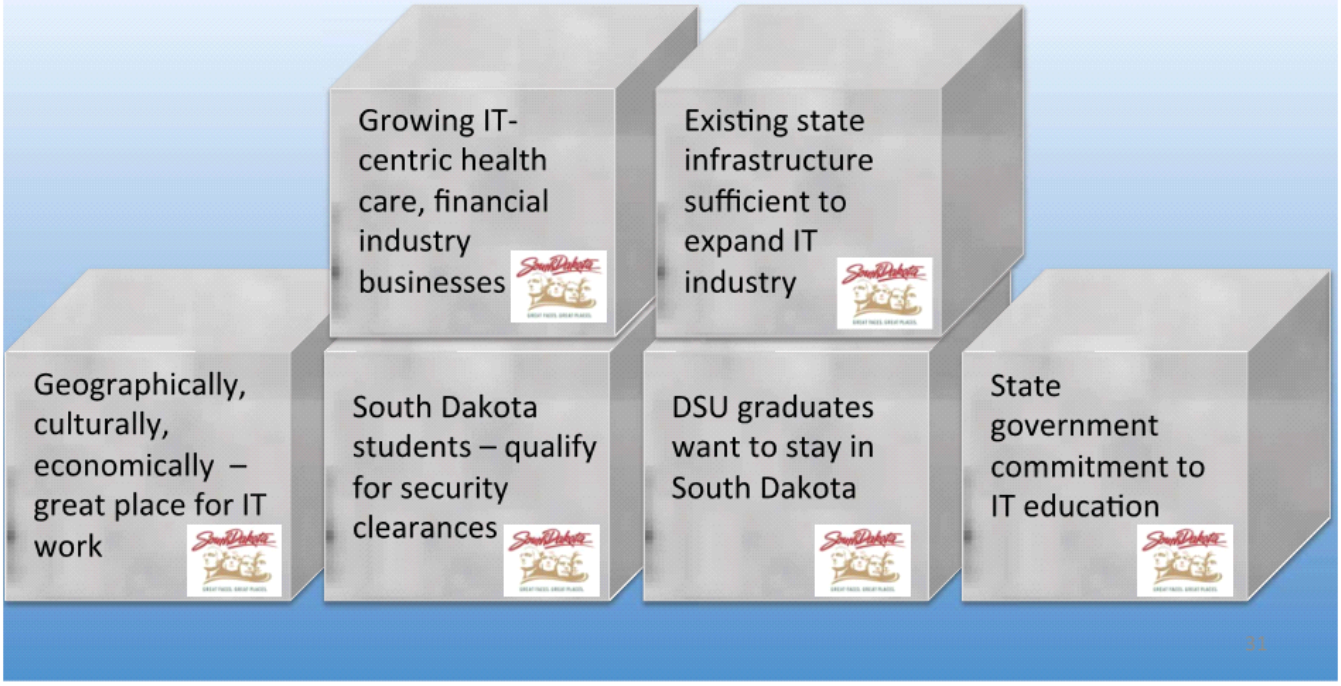
Dakota State University – Future

We have most of the building blocks needed for DSU and South Dakota to have enhanced impact at state, national and international levels….

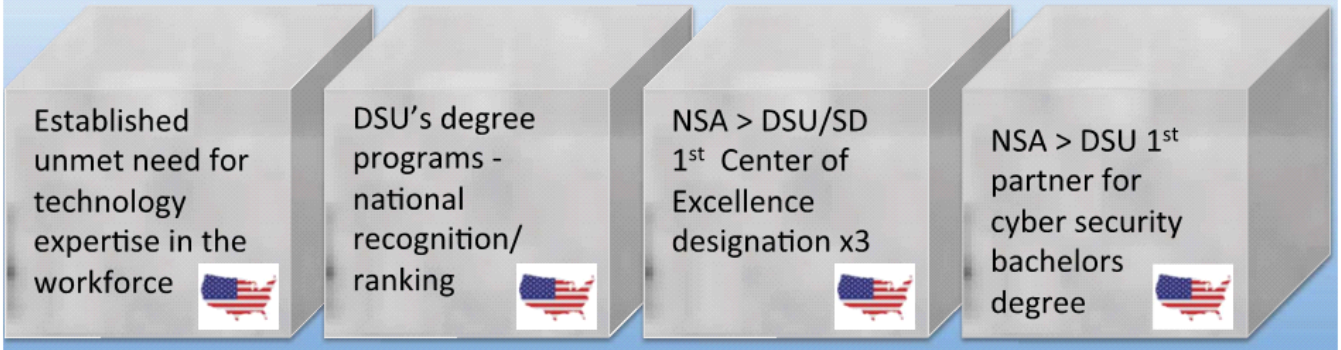
Building blocks already at the DSU level include…



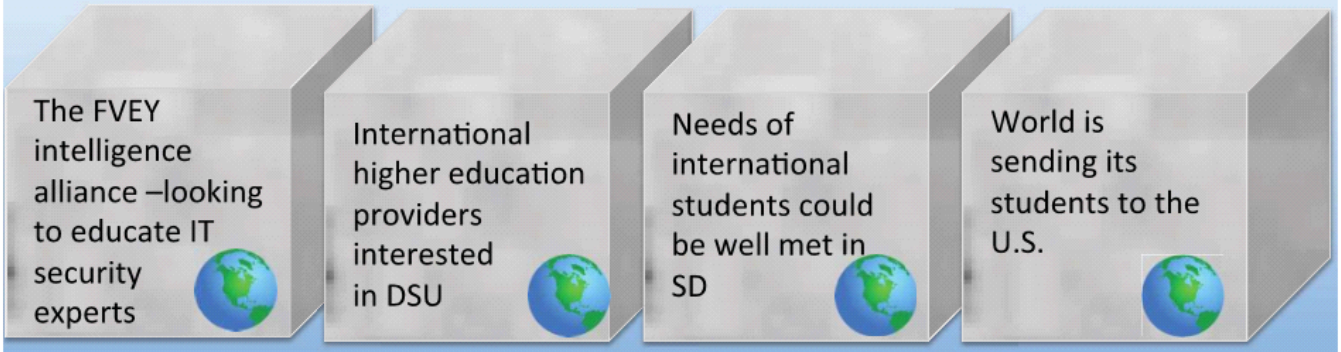
Building blocks already at the SOUTH DAKOTA STATE level include…



Building blocks already at the U.S. NATIONAL level include…



Building blocks already at the INTERNATIONAL level include…



What are the MISSING building blocks?
DSU level:

DSU
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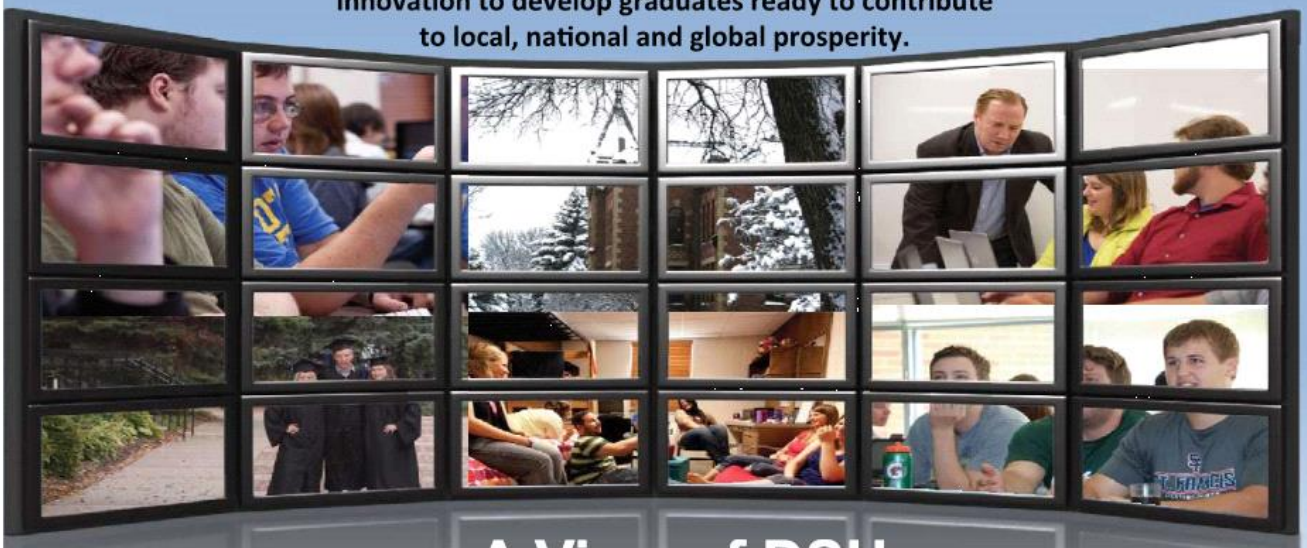
DSU MISSION STATEMENT:
Dakota State University provides learning that integrates technology and innovation to develop graduates ready to contribute to local, national and global prosperity.

South Dakota
Towers of
Excellence
BHSU
NSU
SDSMT
SDSU
DSU
USD

Dakota State University provides learning that integrates technology and innovation to develop graduates ready to contribute to local, national and global prosperity.



A View of DSU

Dakota State University
South Dakota Legislature Joint Appropriations Committee

José-Marie Griffiths, Ph.D., President
February 3rd, 2016